

CLAIMS

1. (Amended) A multi-layer magnetic part, comprising:

5 a composite sheet obtained by applying a magnetic body paste to a substrate rendering the center and periphery thereof a magnetic pattern, and by applying a nonmagnetic body pattern to a substrate rendering a part thereof except the center and periphery a dielectric pattern comprising a nonmagnetic body;

10 a primary winding or secondary winding, or both such primary and secondary windings, provided on one face of the dielectric pattern and around the center;

a primary winding or secondary winding, or both such primary and secondary windings, provided on the other face of the dielectric pattern and around the center; and

15 a pair of magnetic sheets which are obtained by applying a magnetic body paste to a substrate and drying the paste and which hold the composite sheet and the primary and secondary windings from both sides and contact one another via the magnetic pattern.

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2. The multi-layer magnetic part according to claim 1, wherein the composite sheet the center and periphery of which are a magnetic pattern and a part of which except the center and periphery is a dielectric pattern comprising a nonmagnetic body 25 is inserted between the magnetic sheet and the primary or secondary winding.

30 3. (Amended) The multi-layer magnetic part according to claim 1 or 2, wherein the composite sheet is stacked in a plurality of layers; and

through-holes connecting respectively a plurality of primary windings and a plurality of secondary windings located with the dielectric pattern of the composite sheets interposed therebetween are provided in the composite sheets.

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4. (Amended) The multi-layer magnetic part according to claim 1, 2, or 3, wherein the film thickness of the magnetic pattern and the film thickness of the dielectric pattern of the composite sheet are equal.

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5. (Amended) A method of fabricating the multi-layer magnetic part according to any of claims 1 to 5, comprising the steps of:
creating the magnetic sheet by applying a magnetic body paste to a substrate and drying the paste;

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creating the composite sheet separately by applying a nonmagnetic body paste to a substrate in the form of the dielectric pattern and applying a magnetic body paste to the substrate in the form of the magnetic pattern and drying the pastes;

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creating the primary and secondary windings by applying a conductor paste to the composite sheet or the magnetic sheet and drying the paste; and

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peeling the magnetic sheet and the composite sheet thus obtained from the substrate and stacking the magnetic sheet and composite sheet and pressurizing same to produce a stacked body, and firing the stacked body.